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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/806,800	06/25/2001	Adriaan Retief Swanepoel	0182.00001	6013	
7590 02/02/2004			EXAM	INER	
Gerald E McGlynn III Bliss McGlynn			BALSIS, SHAY L		
2075 West Big Beaver Rd Suite 600			ART UNIT	, PAPER NUMBER	
Troy, MI 4808	34		1744	1744	
			DATE MAIL ED: 02/02/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/806,800	SWANEPOEL, ADRIAAN RETIEF			
	Office Action Summary	Examiner	Art Unit			
		Shay L Balsis	1744			
Period fo	The MAILING DATE of this communication a r Reply	ppears on the cover sheet with the o	correspondence address			
THE N - Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re- period for reply is specified above, the maximum statutory perion to to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the maind dipatent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be tireply within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 28	November 2003.				
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	-				
5) 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdown Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examination The drawing(s) filed on 25 June 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the	a) \boxtimes accepted or b) \square objected to ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is objection	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. §§ 119 and 120					
a)[* S 13)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a li acknowledgment is made of a claim for dome nce a specific reference was included in the 7 CFR 1.78. 1 The translation of the foreign language packnowledgment is made of a claim for dome afterence was included in the first sentence of	ents have been received. Ents have been received in Applicate iority documents have been received in CPCT Rule 17.2(a)). Ents of the certified copies not receive stic priority under 35 U.S.C. § 119(first sentence of the specification of provisional application has been received in the priority under 35 U.S.C. §§ 120	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. ceived. d) and/or 121 since a specific			
Attachmen						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-2, 5, 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Quinlan et al. "*Quinlan*" (USPN 3780395).

Quinlan teaches a wiper, which includes an elongate, flexible curved backbone (21). There is a force applying member (38) connected to the center backbone at two spaced apart points (42).

By observing the figures it is clear that the spacing between the points is between $S_1=0.1*L$ and $S_2=0.35*L$ where L is the length of the backbone and the ratio of the spacing distance between the points and the total length (R=S/L) is between 0.1 and 0.35.

The force applying member is connected to the backbone in such a manner to permit displacement between the force applying member and the backbone. The backbone has a constant thickness and width along its length. The backbone also has a free form curvature as well as a compound curvature when in use.

5. Claims 1-5, 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Quinlan et al. "Quinlan" (USPN 33751754).

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Quinlan teaches a wiper, which includes an elongate, flexible curved backbone (16). There is a force applying member (13) connected to the center backbone at two spaced apart points (25).

By observing the figures it is clear that the spacing distance, S, between the points is between S_1 =0.1*L and S_2 =0.35*L where L is the length of the backbone and the ratio of the spacing distance between the points and the total length (R=S/L) is between 0.1 and 0.35. The preferred spacing distance S_p between the spaced apart points is about S_p =0.363*L-0.000146*L. The preferred ratio R_p is about R_p =0.363-0.000146*L.

The force applying member is connected to the backbone in such a manner to permit displacement between the force applying member and the backbone. The backbone has a constant thickness and width along its length. The backbone also has a free form curvature as well as a compound curvature when in use.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Quinlan ('395) and Quinlan ('754) all in view of Swanpoel (USPN 5485650)

Both Quinlan's teach the essential elements of the claimed invention however, they fail to teach a backbone with a varying width and thickness along its length. Swanpoel teaches a wiper with an elongated curved backbone with a backbone that tapers uniformly in both thickness and

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width in a straight line manner from its center to its tips (col. 3, line 36-37). It would have been obvious to have the backbone of Quinlan's wipers vary in thickness and width along its length. Further, one of skill in the art would by routine experimentation find the optimum thickness and width for the backbone. It would have been obvious to one of skill in the art to make the thickness and width of the Quinlan vary to what is desired or required, including as claimed to optimize performance and life of the wiper.

8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Quinlan ('395) and Quinlan ('754) all in view of Appel (USPN 3192551)

Quinlan all teach the essential elements of the claimed invention however, they fail to teach a backbone with a varying width and thickness along its length. Appel teaches a wiper with an elongated curved backbone with a backbone that tapers uniformly in both thickness and width in a straight-line manner from its center to its tips (col. 3, line 36-37). It would have been obvious to have the backbone of Quinlan's wipers vary in thickness and width along its length. Further, one of skill in the art would by routine experimentation find the optimum thickness and width for the backbone. It would have been obvious to one of skill in the art to make the thickness and width of the Quinlan vary to what is desired or required, including as claimed to optimize performance and life of the wiper.

Applicant's Arguments

- a. The prior art drawings are not to scale and cannot be properly relied upon to support a rejection.
 - b. Krohm does not teach a curved backbone.

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Response to Arguments

a. While drawings are not to scale and cannot be relied upon to establish particular dimensions, they can be used to determine relative sizes of components. The drawings show the spacing between the points being in the range claimed. Whether or not the drawings are to scale, they still show the ratio of length to spacing distance as is claimed. Note that applicant is not claiming a specific length or specific spacing but only a range of ratios of the two lengths.

If drawings show a component as elongated (it is longer than it is thick or wide) such would clearly be considered evidence of an elongated (ratio of length to height or width) component, even though no specific dimension were given for such component.

b. Applicant's arguments, see pages 7-9, filed 11/28/03, with respect to the Krohm '616 patent, and the Arai '326 patent have been fully considered and are persuasive. The rejection of claims 1-2, 5, 7-8, 11 with respect to Krohm and 1-5, 7-11 with respect to Arai has been withdrawn.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shay L Balsis whose telephone number is 571-272-1268. The examiner can normally be reached on 7:30-5:00 M-Th, alternating F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Slb 1/14/04 ROBERT J. WARDEN, SR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700